

Serial Number: 10/032,996

CRF Processing Date: 1/24/2002

Edited by: [Signature]  
Verified by: [Signature] (STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: corrected C1507, C1517 information

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/10/032,996

TIME: 18:35:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

```

3 <110> APPLICANT: Botstein,David
4   Desnoyers,Luc
5   Ferrara,Napoleone
6   Fong,Sherman
7   Gao,Wei-Qiang
8   Goddard,Audrey
9   Gurney,Austin L.
10  Pan,James
11  Roy,Margaret Ann
12  Stewart,Timothy A.
13  Tumas,Daniel
14  Watanabe,Colin K.
15  Wood,William I.
17 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
18   Acids Encoding the Same
20 <130> FILE REFERENCE: P2930R1C3
C--> 22 <140> CURRENT APPLICATION NUMBER: US/10/032,996
C--> 22 <141> CURRENT FILING DATE: 2001-12-27
22 <150> PRIOR APPLICATION NUMBER: 60/095,325
23 <151> PRIOR FILING DATE: 1998-08-04
25 <150> PRIOR APPLICATION NUMBER: 60/112,851
26 <151> PRIOR FILING DATE: 1998-12-16
28 <150> PRIOR APPLICATION NUMBER: 60/113,145
29 <151> PRIOR FILING DATE: 1998-12-16
31 <150> PRIOR APPLICATION NUMBER: 60/113,511
32 <151> PRIOR FILING DATE: 1998-12-22
34 <150> PRIOR APPLICATION NUMBER: 60/115,558
35 <151> PRIOR FILING DATE: 1999-01-12
37 <150> PRIOR APPLICATION NUMBER: 60/115,565
38 <151> PRIOR FILING DATE: 1999-01-12
40 <150> PRIOR APPLICATION NUMBER: 60/115,733
41 <151> PRIOR FILING DATE: 1999-01-12
43 <150> PRIOR APPLICATION NUMBER: 60/119,341
44 <151> PRIOR FILING DATE: 1999-02-09
46 <150> PRIOR APPLICATION NUMBER: 60/119,537
47 <151> PRIOR FILING DATE: 1999-02-10
49 <150> PRIOR APPLICATION NUMBER: 60/119,965
50 <151> PRIOR FILING DATE: 1999-02-12
52 <150> PRIOR APPLICATION NUMBER: 60/162,506
53 <151> PRIOR FILING DATE: 1999-10-29
55 <150> PRIOR APPLICATION NUMBER: 60/170,262
56 <151> PRIOR FILING DATE: 1999-12-09
58 <150> PRIOR APPLICATION NUMBER: 60/187,202

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,996

DATE: 01/24/2002

TIME: 18:35:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

```

59 <151> PRIOR FILING DATE: 2000-03-03
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252
62 <151> PRIOR FILING DATE: 1999-06-02
64 <150> PRIOR APPLICATION NUMBER: PCT/US99/28634
65 <151> PRIOR FILING DATE: 1999-12-01
67 <150> PRIOR APPLICATION NUMBER: PCT/US99/28551
68 <151> PRIOR FILING DATE: 1999-12-02
70 <150> PRIOR APPLICATION NUMBER: PCT/US00/03565
71 <151> PRIOR FILING DATE: 2000-02-11
73 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
74 <151> PRIOR FILING DATE: 2000-02-22
76 <150> PRIOR APPLICATION NUMBER: PCT/US00/05841
77 <151> PRIOR FILING DATE: 2000-03-02
79 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439
80 <151> PRIOR FILING DATE: 2000-03-30
82 <150> PRIOR APPLICATION NUMBER: PCT/US00/14941
83 <151> PRIOR FILING DATE: 2000-05-30
85 <150> PRIOR APPLICATION NUMBER: PCT/US00/15264
86 <151> PRIOR FILING DATE: 2000-06-02
88 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678
89 <151> PRIOR FILING DATE: 2000-12-01
92 <150> PRIOR APPLICATION NUMBER: US 09/866,034
93 <151> PRIOR FILING DATE: 2001-05-25
95 <160> NUMBER OF SEQ ID NOS: 38
97 <210> SEQ ID NO: 1
98 <211> LENGTH: 1283
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 1
103  cggacgcgtg  ggacccatac  ttgctggtct  gatccatgca  caaggcgggg  50
105  ctgctaggcc  tctgtgcccg  ggcttggaat  tcggtgcgga  tggccagctc  100
107  cgggatgacc  cgccgggacc  cgctcgcaaa  taaggtggcc  ctggtaacgg  150
109  cctccaccga  cgggatcggc  ttccgcatcg  cccggcgttt  ggcccaggac  200
111  ggggcccattg  tggtcgtcag  cagccggaag  cagcagaatg  tggaccaggc  250
113  ggtggccacg  ctgcaggggg  aggggctgag  cgtgacgggc  accgtgtgcc  300
115  atgtggggaa  ggcggaggac  cgggagcggc  tgggtggccac  ggctgtgaag  350
117  cttcatggag  gtatcgatat  cctagtctcc  aatgctgctg  tcaacccttt  400
119  ctttgaagc  ataatggatg  tcaactgagga  ggtgtgggac  aagactctgg  450
121  acattaatgt  gaaggcccca  gccctgatga  caaaggcagt  ggtgccagaa  500
123  atggagaaac  gaggaggcgg  ctcagtgggtg  atcgtgtctt  ccatagcagc  550
125  cttcagtgca  tctcctggct  tcagtcctta  caatgtcagt  aaaacagcct  600
127  tgcctggcct  gaccaagacc  ctggccatag  agctggcccc  aaggaacatt  650
129  aggtgaact  gcctagcacc  tggacttatc  aagactagct  tcagcaggat  700
131  gctctggatg  gacaaggaaa  aagaggaaaag  catgaaagaa  accctgcgga  750
133  taagaagggt  aggcgagcca  gaggattgtg  ctggcatcgt  gtctttcctg  800
135  tgctctgaag  atgccagcta  catcaactggg  gaaacagtgg  tgggtgggtg  850
137  aggaaccccc  tcccgcctct  gaggaccggg  agacagccca  caggccagag  900
139  ttgggctcta  gctcctggtg  ctgttcctgc  attcaccac  tggcctttcc  950
141  cacctctgct  caccttactg  ttcacctcat  caaatcagtt  ctgccctgtg  1000

```

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/10/032,996

TIME: 18:35:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

```

143 aaaagatcca gccttcctg ccgtcaaggt ggcgtcttac tcgggattcc 1050
145 tgctgttggt gtggccttgg gtaaaggcct cccctgagaa cacaggacag 1100
147 gcctgctgac aaggctgagt ctacctggc aaagaccaag atattttttc 1150
149 ctgggccact ggtgaatctg aggggtgatg ggagagaagg aacctggagt 1200
151 ggaaggagca gagttgcaaa ttaacagctt gcaaatgagg tgcaaataaa 1250
153 atgcagatga ttgcgcggct ttgaaaaaaa aaa 1283
155 <210> SEQ ID NO: 2
156 <211> LENGTH: 278
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 2
161 Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
162 1 5 10 15
164 Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu
165 20 25 30
167 Ala Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly
168 35 40 45
170 Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
171 50 55 60
173 Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
174 65 70 75
176 Leu Gln Gly Glu Leu Ser Val Thr Gly Thr Val Cys His Val
177 80 85 90
179 Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
180 95 100 105
182 Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn
183 110 115 120
185 Pro Phe Phe Gly Ser Ile Met Asp Val Thr Glu Glu Val Trp Asp
186 125 130 135
188 Lys Thr Leu Asp Ile Asn Val Lys Ala Pro Ala Leu Met Thr Lys
189 140 145 150
191 Ala Val Val Pro Glu Met Glu Lys Arg Gly Gly Gly Ser Val Val
192 155 160 165
194 Ile Val Ser Ser Ile Ala Ala Phe Ser Pro Ser Pro Gly Phe Ser
195 170 175 180
197 Pro Tyr Asn Val Ser Lys Thr Ala Leu Leu Gly Leu Thr Lys Thr
198 185 190 195
200 Leu Ala Ile Glu Leu Ala Pro Arg Asn Ile Arg Val Asn Cys Leu
201 200 205 210
203 Ala Pro Gly Leu Ile Lys Thr Ser Phe Ser Arg Met Leu Trp Met
204 215 220 225
206 Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile Arg
207 230 235 240
209 Arg Leu Gly Glu Pro Glu Asp Cys Ala Gly Ile Val Ser Phe Leu
210 245 250 255
212 Cys Ser Glu Asp Ala Ser Tyr Ile Thr Gly Glu Thr Val Val Val
213 260 265 270
215 Gly Gly Gly Thr Pro Ser Arg Leu
216 275

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,996

DATE: 01/24/2002

TIME: 18:35:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

```

218 <210> SEQ ID NO: 3
219 <211> LENGTH: 21
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
226 <400> SEQUENCE: 3
227 gcataatgga tgtcactgag g 21
229 <210> SEQ ID NO: 4
230 <211> LENGTH: 23
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
237 <400> SEQUENCE: 4
238 agaacaatcc tgctgaaagc tag 23
240 <210> SEQ ID NO: 5
241 <211> LENGTH: 46
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
248 <400> SEQUENCE: 5
249 gaaacgagga ggcggctcag tggatgatcgt gtcttccata gcagcc 46
251 <210> SEQ ID NO: 6
252 <211> LENGTH: 3121
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 6
257 ggcgcctgag ctccgcctcc gggcccgata gcggcatcga gagcgctcc 50
259 gtcgaggacc aggcggcgca gggggccggc gggcgaaagg aggatgagg 100
261 ggcgcagcag ctgctgacct tgcagaacca ggtggcgcgg ctggaggagg 150
263 agaaccgaga ctttctggct gcgctggagg acgccatgga gcagtacaaa 200
265 ctgcagagcg accggctgcy tgagcagcag gaggagatgg tggaactgcy 250
267 gctgcggtta gagctggtgc ggccaggctg ggggggcctg cggctcctga 300
269 atggcctgcc tcccgggtcc tttgtgcctc gacctcatac agccccctg 350
271 ggggtgccc acgccatgt gctgggcatg gtgccgcctg cctgcctccc 400
273 tggagatgaa gttggctctg agcagagggg agagcaggtg acaaattggc 450
275 gggaggctgg agctgagttg ctgactgagg tgaacaggct gggaagtggc 500
277 tcttcagctg cttcagagga ggaagaggag gaggaggagc cgcccaggcg 550
279 gaccttacac ctgcgcagaa ataggatcag caactgcagt cagagggcgg 600
281 gggcacgccc agggagtctg ccagagagga agggccaga gctttgcctt 650
283 gaggagttag atgcagccat tccaggggtc agagcagttg gtgggagcaa 700
285 gggccgagtt caggcccgcc aggtccccc tgccacagcc tcagagtggc 750
287 ggctggccca gggccagcag aagatccggg agctggctat caacatccgc 800
289 atgaaggagg agcttattgg cgagctggtc cgcacaggaa aggcagctca 850
291 ggcctgaac cgccagcaca gccagcgtat ccgggagctg gaggaggagg 900
293 cagagcaggt gcgggcccag ctgagtgaag gccagaggca gctgcgggag 950
295 ctgcagggca aggagctcca ggatgctggc gagcgtctc ggctccagga 1000

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,996

DATE: 01/24/2002

TIME: 18:35:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

```

297 gttccgcagg aggggtcgctg cggcccagag ccaggtgcag gtgctgaagg 1050
299 agaagaagca ggctacggag cggtggtgt cactgtcggc ccagagttag 1100
301 aagcgactgc aggagctcga gcggaacgtg cagctcatgc ggcagcagca 1150
303 gggacagctg cagaggcggc ttgcgagga gacggagcag aagcggcgcc 1200
305 tggaggcaga aatgagcaag cggcagcacc gcgtcaagga gctggagctg 1250
307 aagcatgagc aacagcagaa gatcctgaag attaagacgg aagagatcgc 1300
309 ggccttccag aggaagaggc gcagtggcag caacggctct gtggtcagcc 1350
311 tggaaacagca gcagaagatt gaggagcaga agaagtggct ggaccaggag 1400
313 atggagaagg tgctacagca gcggcgggcg ctggaggagc tgggggagga 1450
315 gctccacaag cgggaaggcca tctggccaa gaaggaggcc ctgatgcagg 1500
317 agaagacggg gctggagagc aagcgccctga gatccagcca ggccctcaac 1550
319 gaggacatcg tgcgagtgtc cagccggctg gagcacctgg agaaggagct 1600
321 gtccgagaag agcgggcagc tgcggcaggg cagcgcccag agccagcagc 1650
323 agatccgcgg ggagatcgac agcctgcgcc aggagaagga ctcgctgtct 1700
325 aagcagcgcc tggagatcga cggcaagctg aggcagggga gtctgtgtct 1750
327 ccccgaggag gagcggacgc tgttccagtt ggatgaggcc atcgaggccc 1800
329 tggatgctgc cattgagtat aagaatgagg ccatcacatg ccgccagcgg 1850
331 gtgcttcggg cctcagcctc gttgtgttcc cagtgcgaga tgaacctcat 1900
333 ggccaagctc agctacctct catcctcaga gaccagagcc ctctcttga 1950
335 agtattttga caaggtggtg acgctccgag aggagcagca ccagcagcag 2000
337 attgccttct cggaaactgga gatgcagctg gaggagcagc agaggctggt 2050
339 gtactgctg tgggtggccc tggagcgcca gcgcctggag atggaccgcc 2100
341 agctgacctc gcagcagaag gagcacgagc agaacatgca gctgctcctg 2150
343 cagcagagtc gagaccacct cgggtgaaggg ttagcagaca gcaggaggca 2200
345 gtatgaggcc cggattcaag ctctggagaa ggaactgggc cgttacatgt 2250
347 ggataaacca ggaactgaaa cagaagctcg gcggtgtgaa cgtgttaggc 2300
349 cacagcaggg gtggggagaa gaggagcctg tgctcggagg gcagacaggc 2350
351 tcctggaaat gaagatgagc tccacctggc acccgagctt ctctggctgt 2400
353 ccccccctac tgagggggcc ccccgcaccc gggaggagac gggggacttg 2450
355 gtccacgctc cgttacctct gacctggaaa cgtcagagcc tgtgtggtga 2500
357 ggagcagggg tcccccgagg aactgaggca gcgggaggcg gctgagcccc 2550
359 tgggtgggcg ggtgcttctt gtgggtgagg caggcctgcc ctggaacttt 2600
361 gggcctttgt ccaagccccg gcgggaactg cgacgagcca gcccggggat 2650
363 gattgatgtc cggaaaaacc ccctgtaagc cctcggggca gacctgcct 2700
365 tggagggaga ctccgagcct gctgaaaggg gcagctgcct gttttgcttc 2750
367 tgtgaagggc agtccttacc gcacacctta aatccaggcc ctcatctgta 2800
369 ccctcactgg gatcaacaaa tttgggcat ggcccaaaag aactggacct 2850
371 tcatttaaca aaataatatg caaattccca ccacttactt ccatgaagct 2900
373 gtggtaccca attgcgcctt tgtgtcttgc tcgaatctca ggacaattct 2950
375 ggtttcaggc gtaaattgat gtgctttagg ttcaggggtt tggccaagaa 3000
377 tcatcacgaa agggtcggtg gcaaccagggt tgtggtttta atggtcttat 3050
379 gtatataggg gaaactggga gacttttaga tcttaaaaaa ccatttaata 3100
381 aaaaaaatac tttgaaggga c 3121
383 <210> SEQ ID NO: 7
384 <211> LENGTH: 830
385 <212> TYPE: PRT
386 <213> ORGANISM: Homo sapiens
388 <400> SEQUENCE: 7
389 Met Glu Gln Tyr Lys Leu Gln Ser Asp Arg Leu Arg Glu Gln Gln

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,996

DATE: 01/24/2002

TIME: 18:35:51

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\J032996.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application No

L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date